We Claim:

method of manufacture of a substantially circumferential coating on a non-planer substrate, said method comprising the step of:

substantially non directional gaseous utilising deposition technique and a substantially static substrate deposition geometry to deposit said coating.

- A method as claimed in claim 1 coating has piezo-electric modulation characteri
- A method as claimed in claim 1 or 2 wherein the coating has electro-optic modulation characteristics.
- A method as claimed in any one of the preceding claims wherein the coating has semiconducting properties.
- A method as claimed in any preceeding claims 15 wherein the coating comprises substantially Zinc-Oxide.
 - A method as claimed in any one of the preceding claims wherein the non directional deposition technique comprises chemical vapour deposition.

A method as claimed in claim 6 wherein the non directional deposition technique comprises single source chemical vapour deposition.

- A method as claimed in any one of the preceding wherein the non-planar substrate is an optical
- 9. A method as claimed in claim 8 wherein at least of optical one end the is clamped substantially planar heating surface during the deposition.
- 10. A method claimed in claim 8 wherein the as optical fibre is clamped at a portion of the length of the fibre which is located at one end of a heating surface during the deposition.
- A method as claimed in claim 8 wherein a movement of a free end of the optical fibre is limited to movement substantially along the axis of the optical fibre.
- 12. A receptacle for an optical fibre arranged to be used in a method of manufacture of a circumferential

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coating on an optical fibre utilising a substantially non directional deposition technique and a substantially static substrate deposition geometry, said receptacle comprising:

- 14 -

a substantially planar heating gurface;

a clamping means for clamping the substrate fibre onto the heating surface, wherein the clamping means is arranged to clamp the fibre at a portion of the length of the optical fibre which is located at one end of the heating surface during the manufacture of the coating; and

means for limiting/a movement of a free end of the optical fibre to movement substantially along axis of the optical fibre.

13. An acusto-optical phase modulator having a phase modulation /efficiency greater than substantially rad/VFMW/em.

acusto-optical phase modulator having An substantially linear relationship between phase modulation and driving power for driving powers greater than 36mW.

15. An acusto-optical phase modulator as claimed in claim 13 or claim 14 including a piezo-electric modulator having a zinc oxide layer constructed substantially in accordance with the method of any of

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